

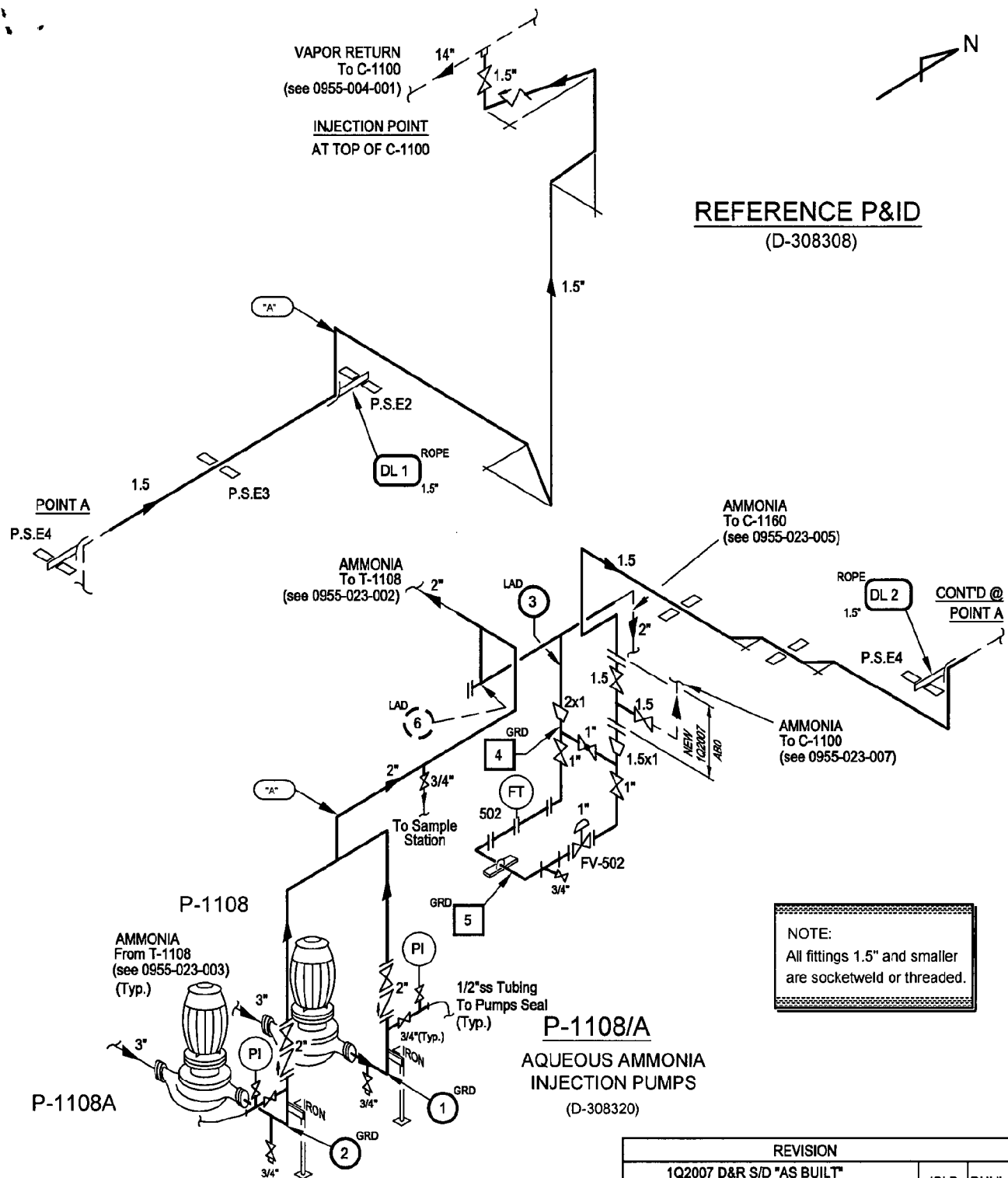
Corrosion Report



Equipment Location ID 0955-023-004
Equip. Location Descrip. AQUA AMMONIA

Remaining Life (Years) 18.63
Retirement Date 11/14/2023
Last Inspection Date 03/22/2010
Next Inspection Date 07/22/2014
Current Corrosion Rate 2.66

DP ID	MEAS METH	DP STAT	DP SZ	DT TYPE	BASE	MEAS 5	MEAS 4	MEAS 3	NEAR	LAST	MIN VALUE	CCR	REM LIFE
001.1	UT	A	2.00	ELL	0.170 09/02					0.160 03/10	0.100	1.33	45.15
001.2	UT	A	2.00	ELL	0.160 09/02					0.160 03/10	0.100	0.00	∞
002.1	UT	A	2.00	ELL	0.260 09/02					0.240 03/10	0.100	2.66	52.69
002.2	UT	A	2.00	ELL	0.220 09/02					0.230 03/10	0.100	0.00	∞
003.E	UT	A	2.00	PIPE	0.150 08/00					0.140 03/05	0.100	2.15	18.63
003.N	UT	A	2.00	PIPE	0.150 08/00					0.160 03/05	0.100	0.00	∞
003.S	UT	A	2.00	PIPE	0.150 08/00					0.160 03/05	0.100	0.00	∞
003.W	UT	A	2.00	PIPE	0.150 08/00					0.150 03/05	0.100	0.00	∞
004.R	RT	A	1.00	PIPE	0.150 08/00					0.150 05/05	0.100	0.00	∞
005.R	RT	A	1.00	PIPE	0.170 08/00					0.270 05/05	0.100	0.00	∞



STATUS: ISO570 COMPLETE		RATING? <input checked="" type="checkbox"/> 150# <input type="checkbox"/> 300#		API-570 <input type="checkbox"/> CLASS I		07/09/2012 TMMV	INSPECTION PIPING ISOMETRIC			
MATERIAL: C.S.		SERVICE: AMMONIA		<input type="checkbox"/> CLASS II			#23 AQUA AMMONIA			
PIPE CLASS: "AB0"(A)		PWHT: NO		<input type="checkbox"/> CLASS III			#4 CRUDE UNIT (PLANT 11)			
							DISTILLATION AND REFORMING AREA BUSINESS UNIT			
LINE NAME: AQUA AMMONIA						Z			REV	SHT
FROM: P-1108/A										
TO: C-1100 INLET									4	1



History Brief

For Location ID: 0955-023-004 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	3/8/2007	Date Available:	03/08/2007
History Brief Date:	03/08/2007	History Brief ID:	VI-0703170495
Event Type:	Information	In- Service Date:	03/08/2007
Equipment ID:	0955-023-004	Critical:	L
Asset ID:	0000111202	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	03/08/2007
Asset Type:	221	Inspection Type:	
Cost Center:	K.DCRR00281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	Added new spool to re-route ammonia injection point, 07 S/D.		

Reliability Analysis:

Event Type:	Information	Worked Performed By:	P2S
Cause Category:	Information	Program Status:	
Effect Category:	Information	Maintainable Item:	Pipe Wall
Repair Location:	Field	Permanent Repair WO:	26202475
Temporary Repair:	No	Name:	STYR
Save:		Inspected By:	STYR

Findings:

PCA ID:

Inspectable:

Sub Item:

Part:

Discussion:

Condition:

Action:

Location:

Damage Mechanism:

PCA Work Order No :

Reliability Comments:

Per S/D EWO # BE 147-E1 modifications were made to re-route the ammonia injection point away from C-1100 and into the sour water circulation line (0955-020-008). The tie-in location is located down stream of FV-502 on the verticle run and ties into the 4" sour water line between the 4" block valve & FE-024. 2007 S/D.



History Brief

For Location ID: 0955-023-004 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	10/4/2004	Date Available:	10/04/2004
History Brief Date:	10/05/2004	History Brief ID:	VI-0410113237
Event Type:	Inspection	In- Service Date:	10/04/2004
Equipment ID:	0955-023-004	Critical:	L
Asset ID:	0000111202	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	10/04/2004
Asset Type:	221	Inspection Type:	
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	5 Year VT, Line Bowed Due To Loss Of Support, Reco To Re-Support		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron Reliability
Cause Category:	Compliance, Inspection, PM	Program Status:	
Effect Category:	Information	Maintainable Item:	Hanger
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	JMJG
Save:		Inspected By:	JMJG

Findings:

PCA ID:
Inspectable:
Sub Item:
Part:
Discussion:

Condition:
Action:
Location:
Damage Mechanism:
PCA Work Order No :

Reliability Comments:

While inspecting the line, it was pointed out that the vertical portion of the line just below the connection to the C-1110 vapor return line had slipped on the support, allowing a noticeable bow on the horizontal portion of the line just below the injection point. A "B" priority safety W/R was written to install a support (a clamp on the 1.5" NH3 line connected to a clamp on the 14" vapor return line) to prevent undue strain on the ammonia line leading to a possible failure.